PI 578245. Avena nuda L.
Breeding. 88AbC321. Pedigree - Selection from Coker 86-16. Straw short. Yield good. Moderate expression of hulless character.

The following were developed by Edgar E. Hartwig, USDA, ARS, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776, United States; Thomas C. Kilen, USDA, ARS, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776, United States. Received 04/04/1994.

PI 578246. Glycine max (L.) Merr.
Breeding. D85-10404. GP-170. Pedigree - Tracy-M X J77-339. Maturity Group VI released to provide a line to help identify additional genes for resistance to stem canker (Diaporthe phaseolorum). Has gene Rdc-1 controlling resistance to stem canker, and genes Rps1-c and Rps3 controlling resistance to phytophthora rot (Phytophthora sojae). Growth habit determinate. Flowers white. Pubescence tawny. Pods tan. Seed yellow with black hila.

The following were developed by Edgar E. Hartwig, USDA, ARS, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776, United States; Thomas C. Kilen, USDA, ARS, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776, United States. Donated by Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi, United States; Thomas C. Kilen, USDA, ARS, Soybean Production Research, P.O. Box 196, Stoneville, Mississippi 38776, United States. Received 04/04/1994.

PI 578247. Glycine max (L.) Merr.
Breeding. D85-10412. GP-171. Pedigree - Tracy-M X J77-339. Maturity Group VI released to provide a line to help identify additional genes for resistance to stem canker (Diaporthe phaseolorum). Has gene Rdc-2 controlling resistance to stem canker, and gene Rps1-b controlling resistance to phytophthora rot (Phytophthora sojae). Growth habit determinate. Flowers white. Pubescence tawny. Pods tan. Seed yellow with black hila.

The following were developed by T. Tsuchiya, USDA, ARS, Colorado State University, Department of Agronomy, Fort Collins, Colorado 80523, United States; C. E. Townsend, USDA, ARS, Crops Research Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526, United States; S. Wang, University of Nanking, Dept. of Agronomy, Nanking, Jiangsu, China. Received 04/04/1994.

PI 578248. Medicago sativa ssp. falcata (L.) Arcang.
Breeding. C-25; W6 15089. GP-273. Pedigree - All available plant introductions from the yellow- & purple- flowered complex were selected for improved plant vigor and yellow flowers for 3 cycles. Traces to 41 seedlings selected from the polycross progenies of 7 tetraploid plants. The 75 most vigorous plants with yellow flowers were selected from an 1800 spaced-plant population of the yellow- and purple-flowered complex. Chromosome counts showed that seven of the 75 plants were tetraploid. Forty-one seedlings from the seven tetraploid polycross progenies were selected for vigor. Flower color ranged from light to dark yellow with some showing a purplish-tinge in the bud stage. Most pods falcate in shape but a few had one coil. Seed weight 1.23 g/1000 seeds.

PI 578249. Medicago sativa ssp. falcata (L.) Arcang.
Breeding. C-26; W6 15090. GP-274. Pedigree - All available plant introductions from the yellow- & purple- flowered complex were selected for improved plant vigor and yellow flowers for 3 cycles. Traces to the 23 most vigorous diploid plants. The 75 most vigorous plants with yellow flowers were selected from an 1800 spaced-plant population of the